

Quality Indicators of Maize Hybrids

OSEVA, a. s. 2007

Hybrid			CEMILK 222	CELUX 225	CESTER 230	CESTER 230	CEKLAD 235	CEMAX 245	CELIO 250	CELIVE	CELIVE	CEMET 260	CEMET 260	CELIDO	CEFIN	CENZUS	CEPLAN	CESLAV
Location			Chocenice	Chocenice	Polička	Pl. Žďár	Pl. Žďár	Pl. Žďár	Polička	Chrudim	Polička	Křečhoř	Polička	Chrudim	Křečhoř	Dub n. M.	Dub n. M.	Křečhoř
Sampling Date			11. 9. 2007	11. 9. 2007	24. 9. 2007	5. 9. 2007	5. 9. 2007	5. 9. 2007	24. 9. 2007	27. 8. 2007	24. 9. 2007	20. 9. 2007	24. 9. 2007	27. 8. 2007	20. 9. 2007	27. 8. 2007	27. 8. 2007	20. 9. 2007
Dry Matter	Whole Plant	%	31,62	31,70	34,21	32,37	31,02	30,57	36,84	30,93	32,96	36,43	33,11	30,92	39,08	37,67	38,51	33,75
	Ear	%	50,74	53,22	57,82	56,11	48,15	54,16	56,63	54,67	52,99	56,76	52,89	55,12	64,57	60,19	56,59	53,20
	Green Matter	%	22,76	23,19	21,71	21,51	21,26	20,28	23,62	20,00	21,63	26,50	21,23	21,54	21,67	24,23	23,72	22,86
Dry Matter Yield	Whole Plant	t/ha	21,33	23,56	16,98	14,42	16,52	15,71	17,07	25,43	22,89	20,44	17,62	24,67	19,07	25,33	21,72	16,35
	Ear	t/ha	10,82	11,19	9,90	7,83	9,31	8,43	10,51	14,20	13,31	10,44	10,56	12,27	12,76	15,13	14,34	9,21
Content in Green Matter	Fiber	%	30,19	26,66	30,83	28,44	29,86	26,37	28,86	28,60	31,97	29,65	31,46	27,98	26,77	31,10	31,88	25,95
	NDF	%	62,53	57,65	64,72	62,81	64,56	60,53	64,38	61,38	66,61	56,79	66,34	61,67	55,51	63,97	67,25	62,80
Content in Whole Plant	Fiber	%	20,94	19,70	19,83	19,52	19,80	18,62	18,51	19,38	20,36	20,60	19,81	19,98	16,86	19,65	18,70	18,07
	NDF	%	45,14	43,73	43,40	44,08	44,13	43,15	42,19	43,02	44,36	42,19	43,56	45,01	37,24	42,61	41,51	43,33
Starch Content of Dry Matter of Whole Plant		%	27,93	26,10	32,14	29,90	30,96	29,61	33,81	30,58	31,95	28,11	32,95	27,38	36,87	32,85	36,35	31,09
Dry Matter Proportion of Ears from Dry Matter of WP		%	50,78	47,46	58,44	54,37	56,29	53,84	61,48	55,61	58,09	51,11	59,92	49,77	67,04	59,73	66,08	56,53
Digestibility of Green Matter	Digestibility Fiber	%	28,12	30,19	45,24	54,45	56,97	62,71	49,28	42,07	45,95	51,23	46,33	30,45	52,01	40,12	38,45	54,15
	Digestibility NDF	%	23,94	26,10	40,79	51,92	53,52	63,83	50,06	40,01	44,99	40,64	42,94	31,41	44,43	36,35	35,73	53,82
	DOM	%	39,78	47,26	49,85	60,49	60,25	67,91	56,05	51,23	52,77	55,17	51,69	43,31	59,46	47,87	42,55	61,89
Digestibility in Whole Plant	Digestibility Fiber	%	40,30	41,69	54,06	59,75	61,40	65,24	57,42	53,09	54,18	56,79	54,92	42,24	60,62	51,03	51,81	60,11
	Digestibility NDF	%	38,60	39,59	51,95	58,31	59,45	66,02	58,17	51,05	54,28	50,69	53,45	43,44	57,45	49,70	51,30	59,73
	DOM	%	59,67	62,24	66,64	70,21	70,33	73,41	69,58	66,40	67,70	67,10	67,71	61,02	72,03	66,24	66,34	71,06
Yield	Digestibility Fiber	t/ha	2,93	3,74	3,23	3,61	4,11	4,55	3,20	4,71	4,39	5,11	3,28	3,76	3,30	4,10	2,82	3,86
	Digestibility NDF	t/ha	2,51	3,23	2,89	3,44	3,85	4,64	3,27	4,49	4,30	4,06	3,04	3,87	2,80	3,71	2,64	3,81
	DOM	t/ha	4,19	5,85	3,55	3,99	4,34	4,93	3,66	5,75	5,04	5,52	3,66	5,38	3,76	4,89	3,13	4,39
NEL	actual	MJ/kg	6,02	6,10	6,38	6,51	6,54	6,65	6,52	6,37	6,37	6,42	6,40	6,11	6,59	6,31	6,36	6,55
	tab		6,71	6,72	6,72	6,72	6,72	6,73	6,73	6,72	6,71	6,71	6,72	6,72	6,75	6,72	6,73	6,74
Yield	NEL	1000 MJ/ha	128,37	143,84	108,33	93,94	108,10	104,44	111,32	161,88	145,73	131,14	112,77	150,64	125,62	159,94	138,14	107,04
Dry Matter Yield of Grain + Digestibility Fiber of Green Matter		t/ha	13,75	14,93	13,13	11,44	13,42	12,98	13,71	18,91	17,70	15,55	13,84	16,04	16,05	19,23	17,17	13,08
Dry Matter Yield of Grain + Digestibility NDF of Green Matter		t/ha	13,33	14,42	12,79	11,27	13,16	13,07	13,78	18,69	17,61	14,50	13,60	16,14	15,55	18,84	16,98	13,03

WP – Whole Plant, NDF – Neutral Detergent Fiber, DOM – Digestibility Organic Matter, NEL – Net Energy of Lactation, Green Matter – Plant without Ear

Digestibility of Organic Matter is determined by method in vitro – nylon bag